

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/06114

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B01J35/02 B01J23/74

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	WO 03 013725 A (MESTERS CAROLUS MATTHIAS ANNA ; VAN HASSELT BASTIAAN WILLEM (NL); S) 20 February 2003 (2003-02-20) page 8, line 18 - line 24 page 1, line 1 - line 12 page 7, line 4 - line 30 figure 1; examples claims 1,14	1-6, 8-10,12, 13
X	EP 0 428 223 A (SHELL INT RESEARCH) 22 May 1991 (1991-05-22) page 6, line 40 -page 7, line 8 examples 4,10 claims 16,17	1,3-5, 9-13
	--- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

11 September 2003

Date of mailing of the international search report

19/09/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Holzwarth, A

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/06114

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 510 770 A (SHELL INT RESEARCH) 28 October 1992 (1992-10-28) page 3, line 8 - line 52 claims 1-7 figures 1,2; examples -----	1-6,8-11
X	US 4 673 664 A (BAMBRICK WILLIAM E) 16 June 1987 (1987-06-16) figures 1-3; examples 1,2 claims column 5, line 11 - line 27 -----	1-4,6,9, 10
X	EP 0 455 307 A (SHELL INT RESEARCH) 6 November 1991 (1991-11-06) example 1; table 1 claims -----	1,3-6, 9-11

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No.

PCT/EP 03/06114

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03013725	A	20-02-2003	WO 03013725 A1	20-02-2003
EP 0428223	A	22-05-1991	AT 108093 T	15-07-1994
			AU 626204 B2	23-07-1992
			AU 6661890 A	23-05-1991
			BR 9005787 A	24-09-1991
			CA 2029960 A1	17-05-1991
			DE 69010456 D1	11-08-1994
			DE 69010456 T2	27-10-1994
			DK 428223 T3	01-08-1994
			EP 0428223 A1	22-05-1991
			ES 2057361 T3	16-10-1994
			JP 3178339 A	02-08-1991
			JP 3204507 B2	04-09-2001
			NO 904943 A	21-05-1991
			RU 2007215 C1	15-02-1994
			ZA 9009129 A	28-08-1991
EP 0510770	A	28-10-1992	AU 1501592 A	29-10-1992
			CA 2066521 A1	24-10-1992
			EP 0510770 A2	28-10-1992
			JP 5163165 A	29-06-1993
US 4673664	A	16-06-1987	AT 45108 T	15-08-1989
			AU 589458 B2	12-10-1989
			AU 6349486 A	09-04-1987
			CA 1270475 A1	19-06-1990
			DE 3664730 D1	07-09-1989
			EP 0218147 A1	15-04-1987
			JP 2108292 C	06-11-1996
			JP 8018312 B	28-02-1996
			JP 62087249 A	21-04-1987
			MX 164812 B	25-09-1992
			US 4960554 A	02-10-1990
			ZA 8607615 A	27-05-1987
EP 0455307	A	06-11-1991	AT 109681 T	15-08-1994
			AU 649249 B2	19-05-1994
			AU 7605791 A	07-11-1991
			CA 2041686 A1	05-11-1991
			CN 1056069 A , B	13-11-1991
			DE 69103319 D1	15-09-1994
			DE 69103319 T2	01-12-1994
			DK 455307 T3	26-09-1994
			EP 0455307 A1	06-11-1991
			ES 2059035 T3	01-11-1994
			JP 3248925 B2	21-01-2002
			JP 4227847 A	17-08-1992
			NO 911719 A	05-11-1991
			NZ 238026 A	25-06-1993
			SU 1836146 A3	23-08-1993
			ZA 9103304 A	29-01-1992